

Pulsar EXtreme C UPS 700/1000/1500 VA

Your network's power protection link

**Maximum security for
your servers, PBXs and
network equipment ...
in minimum space.**

Like a climber who snaps on a "biner" for a safe ascension, you can count on **Pulsar EXtreme C** to protect you no matter what.

Pulsar EXtreme C offers the best in power protection plus the "C" for compact design.

- ▶ **High performance and reliability**
- ▶ **High availability**
- ▶ **Advanced communications**
- ▶ **Ease of use**
- ▶ **Flexibility and scalability**

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N O T H I N G W I L L S T O P

M G E
UPS SYSTEMS

A complete range



Pulsar Extreme C UPSs have been designed to meet the needs of modern equipment, including network, intranet and internet servers, internetworking devices, computer and telecom (PBX) centres, medical equipment and sensitive industrial processes.

Pulsar Extreme C is available in both tower and rack versions with power ratings from 700 to 1500 VA.

Which model to choose ?

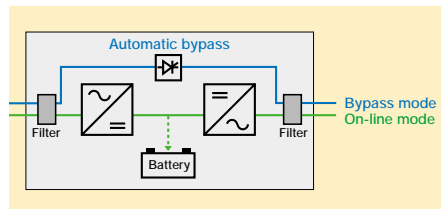
Protected applications	Best choices	Backup time
100-line PABX (300 VA)	Pulsar Extreme 700C + 3 Pulsar EXB 700C	2 hours
1 UNIX server (650 VA)	Pulsar Extreme 700C	7 minutes
	Pulsar Extreme 1000C + Pulsar EXB 1000C	50 minutes
6 Internet servers/1U rack (1500 VA)	Pulsar Extreme 1500C	6 minutes
	Pulsar Extreme 1500C + Pulsar EXB 1500C	25 minutes
	Pulsar Extreme 1500C + 2 Pulsar EXB 1500C	40 minutes
High performance LAN Switch (1500 VA)	Pulsar Extreme 1500C + 3 Pulsar EXB 1500C	80 minutes

High performance and reliability

Pulsar Extreme C provides power protection and extends battery life to increase system reliability.

► On-line double conversion technology

Pulsar Extreme C UPSs use double conversion (on-line) technology, the only way to overcome all power problems. The battery is used only as a backup source.



Whatever the disturbances on the distribution system, the waveform is regenerated via the AC to DC then DC to AC conversion process.

► Wide input-voltage range

Pulsar Extreme C UPSs have a very wide input-voltage range from 120 to 276 V, optimized to improve compatibility with engine generator sets and reduce the number of transfers to battery power. The batteries are used only for the most serious incidents, maximizing available backup time and extending battery life.

► High-performance battery charger

The Pulsar Extreme battery charger:

- reduces battery recharge time (80% backup time recovered in two hours);
- increases the service life of the battery by taking into account manufacturer parameters and battery aging;
- protects the battery against damage caused by deep discharge;
- avoids disturbances on the distribution system by correcting the power factor;
- avoids propagating faults on the distribution system (backfeed protection).

► Certified compliance with CE and UL standards



High availability

Pulsar Extreme C UPSs guarantee a high level of availability, equal to 99.999% or higher.

► Cold start on battery power

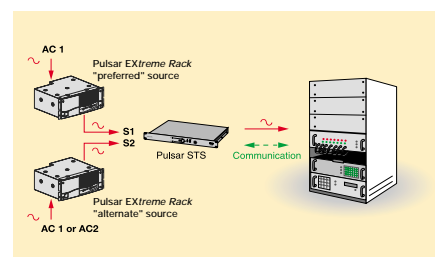
This function ensures trouble-free start-up of your applications even during a utility power outage.

► Automatic bypass

In the event of an overload or UPS fault, Pulsar Extreme C automatically transfers the load to utility AC power.

► High-availability pack

A Pulsar STS source transfer switch combined with two Pulsar Extreme C UPSs provides effective power redundancy.



Advanced communications

Pulsar EXTreme C UPSs offer communications solutions and accessories for remote UPS control and monitoring.

► 2 communications ports



RS232 communications port USB communications port

An RS232 and a USB port are available for easy connection of the UPS to the server. It may be used for:

- **personalization of Pulsar EXTreme C** by modifying the factory-set parameters (output voltage, intervals between battery tests, operation on bypass, etc.) via UPS-Driver software.
- **local or remote administration** (SNMP/WEB) of the UPS and the protected servers, using Solution-Pac software.

► Solution-Pac software

Solution-Pac may be used to:

- alert users;
- automatically shut down different servers in a heterogeneous environment;
- remotely supervise and control UPSs.

► Communications slot

Lets you add an SNMP, dry contact, etc. communication card. The cards make UPS communication totally independent. For example, they keep you informed of UPS status when the server is shut down.



► UPScontrol remote display

Using UPScontrol, the various UPS parameters are remotely displayed.



► MultiSlot expansion module

This module provides three additional communications slots and concentrates the data from an installation comprising redundant UPSs



Flexibility and scalability

Pulsar EXTreme C can adapt easily to all your needs, today and tomorrow.

► Backup times from 6 minutes to several hours

Pulsar EXTreme offers a standard backup time of 6 minutes. To ensure greater continuity of service, it is possible to:

- connect up to three Pulsar EXB battery extension modules to the UPS, without interrupting the supply of power to the protected applications;



Pulsar EXTreme 1500 C + 3 Pulsar EXB modules for 80 minutes of backup time at full rated load.

- use the CLA module (long backup-time charger) for very long backup times of up to eight hours at full rated load. Feel free to contact us for details.

► Hot-swappable batteries

Users can replace the batteries themselves without having to shut down the protected equipment.



► Individual management of outlets with Powershare™

The programmable outlets make it possible to save battery power for the most critical applications. They may also be used to remotely restart or reset a faulty device without interrupting the other protected devices.



Ease of use

Pulsar EXTreme C is only two units high (2U) and fits perfectly in your network or telecom bays.

► Easy installation and integration

- Tower or 19"-rack models

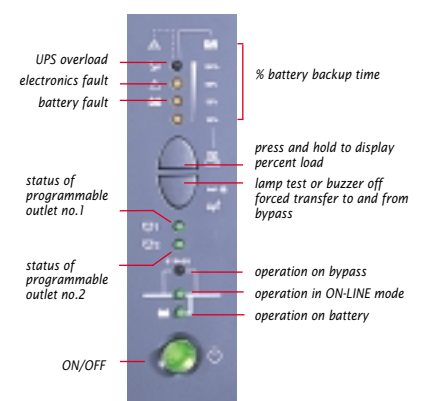


- Complete installation kit
- Pulsar EXTreme C is supplied with telescopic rails and all the necessary hardware



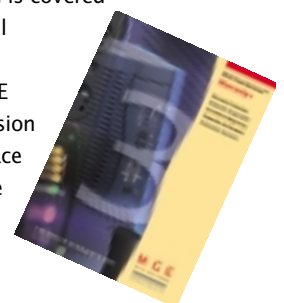
- Quick start-up guide
- Easy connection to AC power.

► Comprehensive display and controls



► Warranty and services

Pulsar EXTreme C is covered by a two-year full warranty. The optional MGE Warranty+ extension ensures user peace of mind for three years on site.



Characteristics

Pulsar EXtreme	700 C		1000 C		1500 C	
General						
Power (Pn)	700 VA / 490 W		1000 VA / 700 W		1500 VA / 1050 W	
Input-voltage range	120/140/160 to 276 volts without using battery power (1)					
Frequency range	50/60 Hz (auto-selection)					
Power factor (THDI)	>0.95 (< 5%)					
Sinusoidal output voltage	200/208/220/230/240 Volts					
Harmonic distortion	<4% on linear load, <6% on non-linear load					
Efficiency	85%		87%		88%	
Crest factor	3:1		3:1		3:1	
Short circuit current (A)	25		29		29	
Overload capacity (Online mode)	110% permanent, 130% 12s, >130% 1.5s					
Batteries						
Backup time	100% Pn	50% Pn	100% Pn	50% Pn	100% Pn	50% Pn
Standard	7	14	7	17	6	19
Pulsar EXtreme C + 1 Pulsar EXB	24	47	27	59	24	79
Pulsar EXtreme C + 2 Pulsar EXB	41	82	47	93	43	119
Pulsar EXtreme C + 3 Pulsar EXB	53	124	64	136	62	168
Automatic battery test	Yes, at regular intervals without risk of interrupting protected applications					
Communication						
USB port	yes		yes		yes	
RS232 port	yes		yes		yes	
Optional cards	SNMP card status information card					
Environment						
Acoustic noise	<40 dBA					
Operating temperature	0 to 40°C					
Standards and certifications						
Performance	EN 50091-3/IEC 62040-3					
Safety	EN 50091-1, EN 60950 (RD/), IEC 60950					
EMC	EN 50091-2/IEC 62040-2, EN 55022/B, FCC 47 part 15 - Subpart B - Class A, IEC 61000-4-2/-3/-4/-5/-6/-8/-11, IEC 61000-3-2/-3					
Marking and certifications	CE,TÜV/GS, UL, cUL, C-Tick					
Design and manufacture	ISO 9001					
Dimensions (HxWxD in mm) and Weight (Kg)						
UPS (electronics + battery)	Tower	235.5x145x400	Tower	235.5x145x400	Tower	235.5x145x505
	Rack	88(2U)x482.6x430	Rack	88(2U)x482.6x430	Rack	88(2U)x482.6x493
Electronics module	Tower/Rack	10/14	Tower/Rack	12/16	Tower/Rack	15/20
Battery module Pulsar EXB	Tower/Rack	11.5/17	Tower/Rack	15/21	Tower/Rack	21/27.5
CLA module (without batteries)	Tower/Rack		Tower/Rack		Tower/Rack	8.5/11.5
Warranty			2 years, extendable by contract			

(1) values for operation at 50%, 66% and 100% rated output

Catalog numbers		EXtreme 700 C		EXtreme 1000 C		EXtreme 1500 C	
Format		Tower	Rack	Tower	Rack	Tower	Rack
UPS		66345	66351	66346	66352	66347	66353
	Warranty + for UPS	66813	66813	66818	66818	66818	66818
Pulsar EXB		66348	66354	66349	66355	66350	66356
	Warranty + for Pulsar EXB	66813	66813	66813	66813	66813	66813
Pulsar EXtreme 1500 transformer						66357	
Pulsar EXtreme 1500 CLA						66359	66358
	Warranty + for Pulsar CLA					66818	66818

RS232 and USB communications ports

slot for a communication card

automatic recognition of battery extension modules

2 programmable outlets

connectors for Pulsar EXB battery extension modules

AC input connector



alarm and battery level indicators

press and hold to display percent load

lamp test or buzzer off

forced transfer to and from bypass

status of programmable outlets 1 and 2

operation on bypass, in ON-LINE mode or on battery

ON/OFF

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